

Monoclonal Antibody to CD4 - Aff - Purified

Alternate names:	T-cell surface antigen T4/Leu-3, T-cell surface glycoprotein CD4
Catalog No.:	TA349005
Quantity:	0.1 mg
Background:	CD4 is a member of the immunoglobulin superfamily and is implicated as associative recognition element in MHC (Major Histocompatibility Complex) class II-restricted immune response. On T-lymphocytes, it defines the helper/inducer subset. The mature 55 kd CD4 protein consists of a 372 amino acid extracellular segment composed of four tandem immunoglobulin-like VJ regions. The CD4 molecule is a major receptor for human immunodeficiency virus (HIV), binding directly to the envelope glycoprotein gp120 on HIV, with the co-receptors being CCR5 or CXCR4. It has been shown that the V-like domains are critical for binding with HIV envelope gp120.
Uniprot ID:	P01730
NCBI:	NP_000607
GeneID:	920
Host / Isotype:	Mouse / IgG
Clone:	8G1B12
Immunogen:	A 193 amino acid recombinant protein from near the amino terminus of Human CD4 (GenBank accession No. NP_000607)
Format:	State: Liquid purified Ig fraction. Purification: Immunoaffinity Chromatography. Buffer System: PBS containing 0.02% Sodium Azide as preservative.
Applications:	ELISA. Western Blot: CD4 antibody can be used for detection of CD4 at 0.5-1 µg/ml. <i>Positive Control:</i> Rat Lung Tissue Lysate. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	Recognizes CD4 Species: Human, Mouse and Rat. Other species not tested.
Add. Information:	Related Products: AM20150PU-N: CD4 Antibody (9H5A8) AP30373PU-N: gp120 Antibody AP30266PU-N: CXCR4 Antibody (N-term)
Storage:	Store the antibody undiluted at 2-8°C. Shelf life: one year from despatch.

- General Readings:**
1. Bowers K, Pitcher C, Marsh M. CD4: a co-receptor in the immune response and HIV infection. *Int J Biochem Cell Biol.* 1997 Jun;29(6):871-5. PubMed PMID: 9304802.
 2. Arthos J, Deen KC, Chaikin MA, Fornwald JA, Sathe G, Sattentau QJ, et al. Identification of the residues in human CD4 critical for the binding of HIV. *Cell.* 1989 May 5;57(3):469-81. PubMed PMID: 2541915.

Pictures: Western blot analysis of CD4 in rat lung tissue lysate with CD4 antibody at (A) 0.5 and (B) 1 ug/mL.

